## WHAT’S NEW IN SOLIDWORKS® 2024–3D CAD

### 1. Previous Release Compatibility

- Leverage your SOLIDWORKS subscription to collaborate with suppliers who use older versions of SOLIDWORKS by saving your SOLIDWORKS designs as older versions.
- Save parts, assemblies, and drawings as SOLIDWORKS versions that are up to two years prior to the latest release.

### Benefits

Collaborate with other users, even if they are using an older version of SOLIDWORKS.

### 2. Assemblies

- Simplify your large assemblies faster by applying rules when you defeature your model using the Silhouette option.
- Represent post-assembly machining operations in SOLIDWORKS with Insert Assembly into Part.
- Simplify assembly STEP file import with the ability to filter out unwanted components on the fly.

### Benefits

Employ new assembly modeling workflows to speed up large assembly design, documentation, and collaboration.

### 3. Parts and Features

- Speed up sketching with a new option to preview and edit a dimension as soon as you select one or more entities.
- Create bidirectional, symmetric patterns with the Symmetric option for Linear Pattern.
- Display the unit of measurement as a custom property in notes and tables.

### Benefits

Speed up sketching, and more easily capture and communicate design intent while reducing design effort.

### 4. Drawings and Detailing

- Clean up dangling dimensions more efficiently by reattaching them to the proper reference points.
- Detail drawings faster with improved chain dimensioning alignment and adherence to drawing standards.
- Exclude hidden sketches from DXF™ Flat-Pattern with a new option.

### Benefits

Create drawings that communicate designs more clearly with standardized chain dimensions layout, efficient dimension reattachment, and reduced DXF export post-processing.

### 5. Sheet Metal

- Adhere to manufacturing practices by providing a Normal Cut option for slots when tabs are created at an angle.
- Automatically propagate slots to all instances of a tab that intersects a specific part.
- Eliminate the need for form tool creation with the option to create a stamp/form feature on the fly using just Sketch.

### Benefits

Reduce sheet metal manufacturing bottlenecks by adhering to sheet metal manufacturing standards.
Structure System

Benefits
- Speed up the editing and management of corner treatments with the ability to group similar corners and apply treatments automatically or manually.
- Automatically create an open corner for the addition of a connection block with a new Corner Treatment option.

Routing

Benefits
- Improve performance using a new option to update only the current 3D electrical route.
- Improve 3D performance with the ability to exclude selected parts from 3D, while including all parts in the BOM and Reports.
- Add electrical routes as either single segments or as groups of discrete wires in electrical bundles.

Electrical Design

Benefits
- Autoballoon components in 2D control panel (cabinet) drawings similar to SOLIDWORKS drawings.
- Show consecutive component marks as a range in reports (e.g., X1-X7 instead of listing all 7).
- Configure wire properties using Excel automation with the new Autoconnection feature.

MBD

Benefits
- Export Hole Tables to 3D PDF.
- Edit the dangling dimensions to reattach them to a feature in the model.
- Display dual dimensions while creating geometric tolerance symbols.

SOLIDWORKS Visualize

Benefits
- Select appearance types and optimize their parameters more easily with a simplified interface.
- Adjust textures and texture maps for parameters, with greater control and fidelity.
- Combine normal and displacement maps and apply vector displacement.

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